

FIG. 1

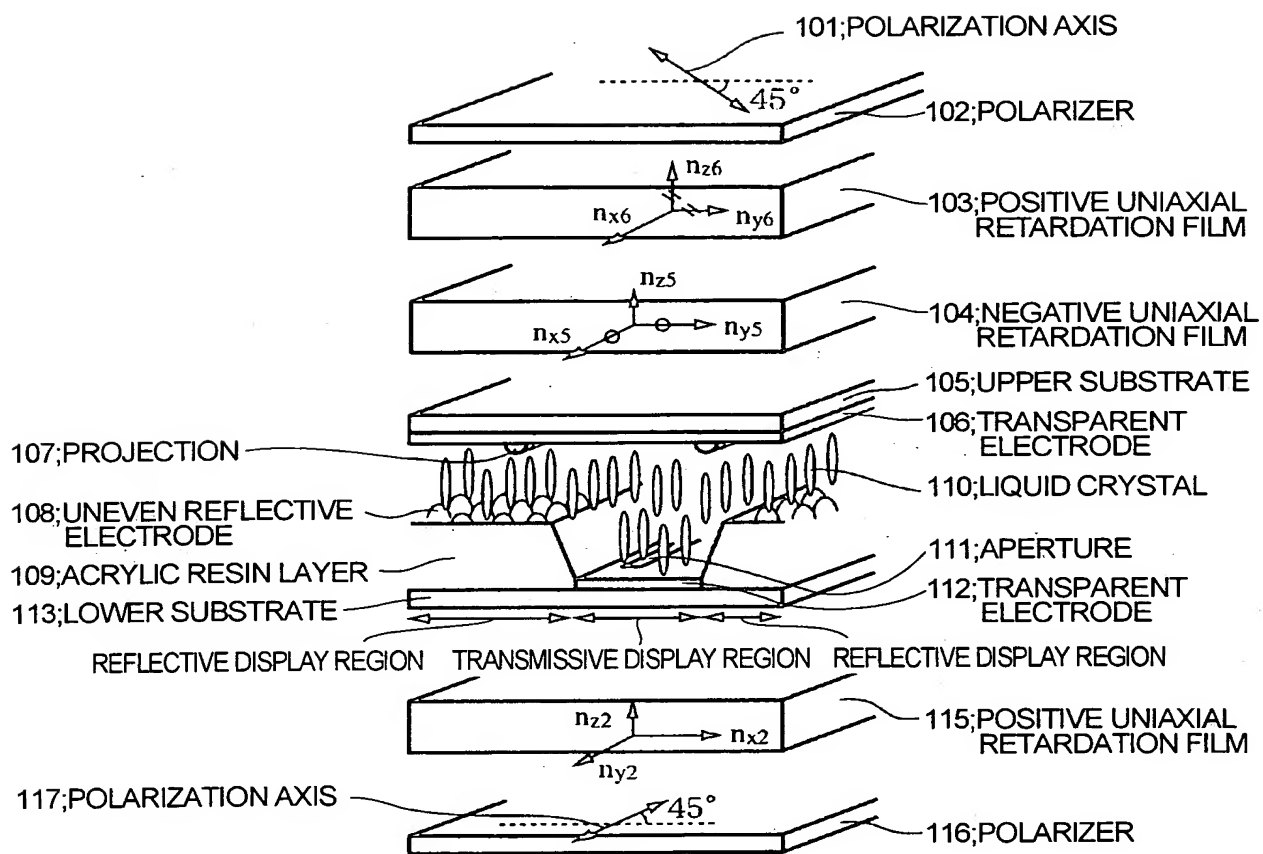


FIG. 2

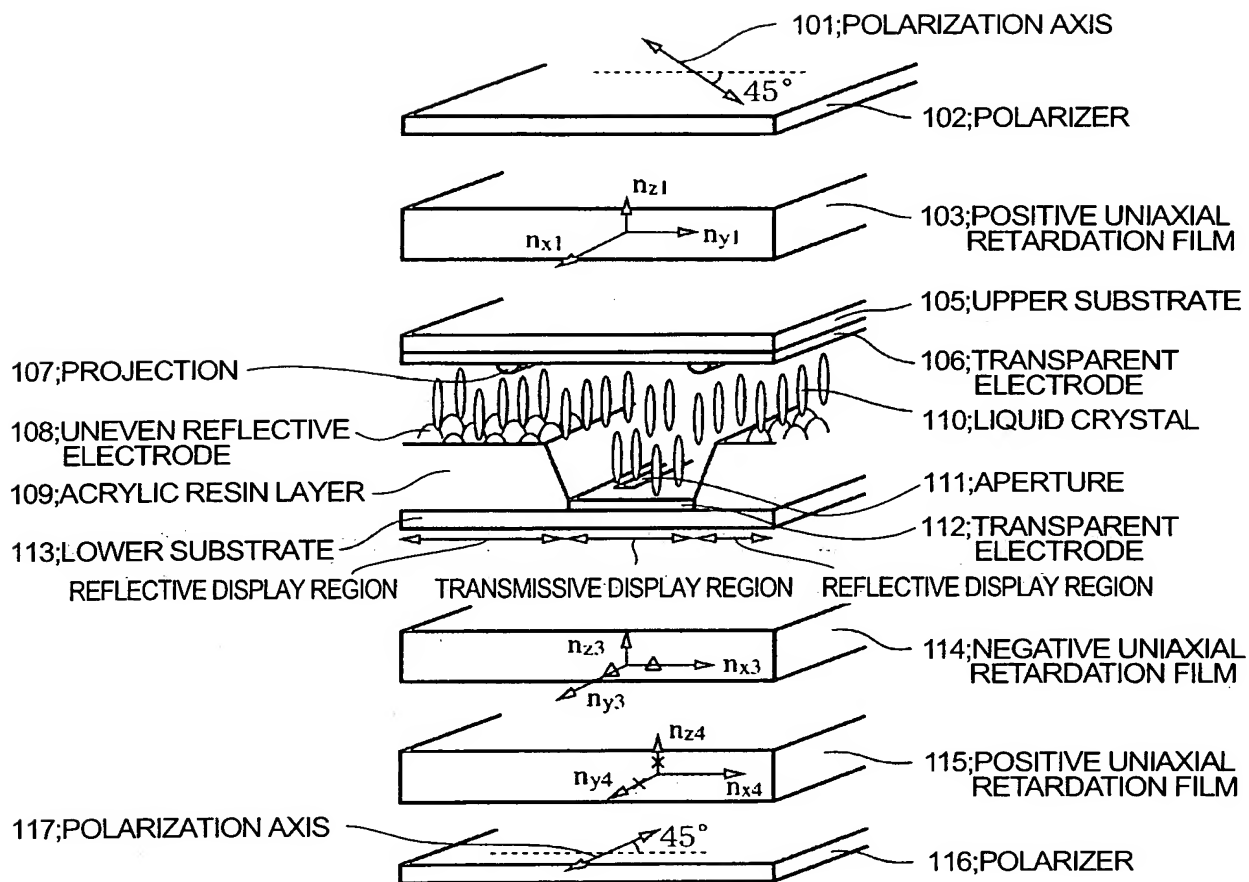


FIG. 3

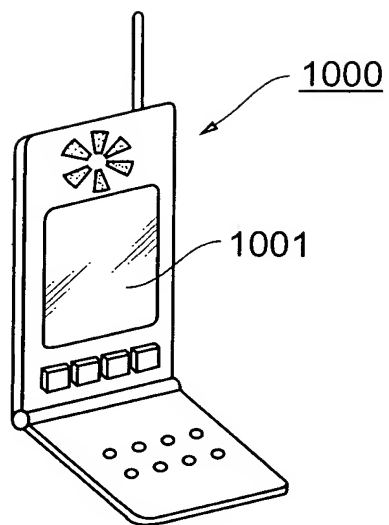


FIG. 4

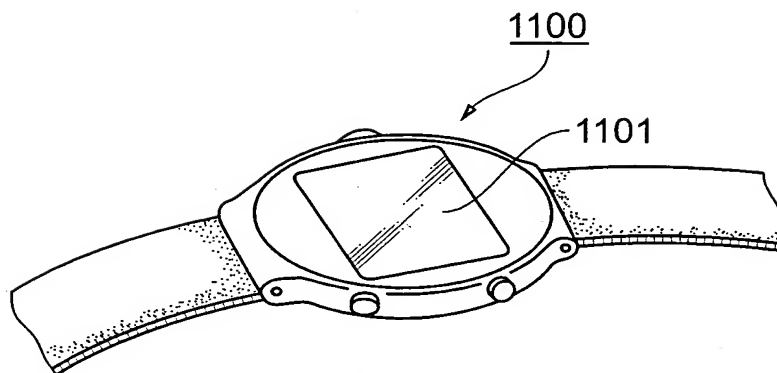


FIG. 5

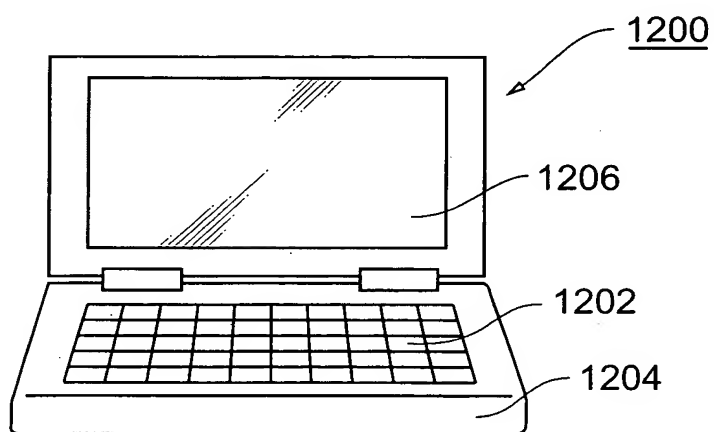


FIG. 6

TRANSMISSIVE LIQUID CRYSTAL LAYER $\Delta n d(R)$ (nm)	300	300	300	300	300	300	300	300
SUM W1 OF RETARDATIONS IN Z-DIRECTION (nm)	100	118	150	175	200	225	240	260
W1/Rt	0.33	0.39	0.50	0.58	0.67	0.75	0.80	0.87
TRANSMISSIVE-DISPLAY VIEWING RANGE (CR>30)°	21	25	35	50	41	35	26	19

FIG. 7A

TRANSMISSIVE LIQUID CRYSTAL LAYER $\Delta n d(R)$ (nm)	500	500	500	500	500	500	500	500
SUM W1 OF RETARDATIONS IN Z-DIRECTION (nm)	150	190	250	300	335	375	400	450
W1/Rt	0.30	0.38	0.50	0.60	0.67	0.75	0.80	0.90
TRANSMISSIVE-DISPLAY VIEWING RANGE (CR>30)°	18	23	36	48	40	35	23	19

FIG. 7B

TRANSMISSIVE LIQUID CRYSTAL LAYER $\Delta n_d(Rt)$ nm	400	400	400	400	400	400	400	400	400
SUM W2 OF RETARDATIONS IN Z-DIRECTION(nm)	125	160	200	245	270	300	340	370	
W2/Rt	0.31	0.40	0.50	0.61	0.68	0.75	0.85	0.93	
TRANSMISSIVE-DISPLAY VIEWING RANGE(CR>30)°	21	24	36	52	43	36	25	20	

FIG. 8

TRANSMISSIVE LIQUID CRYSTAL LAYER $\Delta n_d(Rt)$ nm	380	380	380	380	380	380	380	380	380
SUM W3 OF RETARDATIONS IN Z-DIRECTION(nm)	120	160	190	235	265	285	310	350	
W3/Rt	0.32	0.42	0.50	0.62	0.70	0.75	0.82	0.92	
TRANSMISSIVE-DISPLAY VIEWING RANGE(CR>30)°	18	23	37	51	44	36	27	19	

FIG. 9

REFLECTIVE LIQUID CRYSTAL LAYER $\Delta n d(R_r)$ nm	200	200	200	200	200	200	200	200	200
SUM W4 OF RETARDATIONS IN Z-DIRECTION(nm)	60	80	100	120	135	150	170	190	200
W4/Rr	0.30	0.40	0.50	0.60	0.68	0.75	0.85	0.95	0.95
TRANSMISSIVE-DISPLAY VIEWING RANGE(CR>10°)	15	22	32	45	42	33	23	14	14

FIG. 10

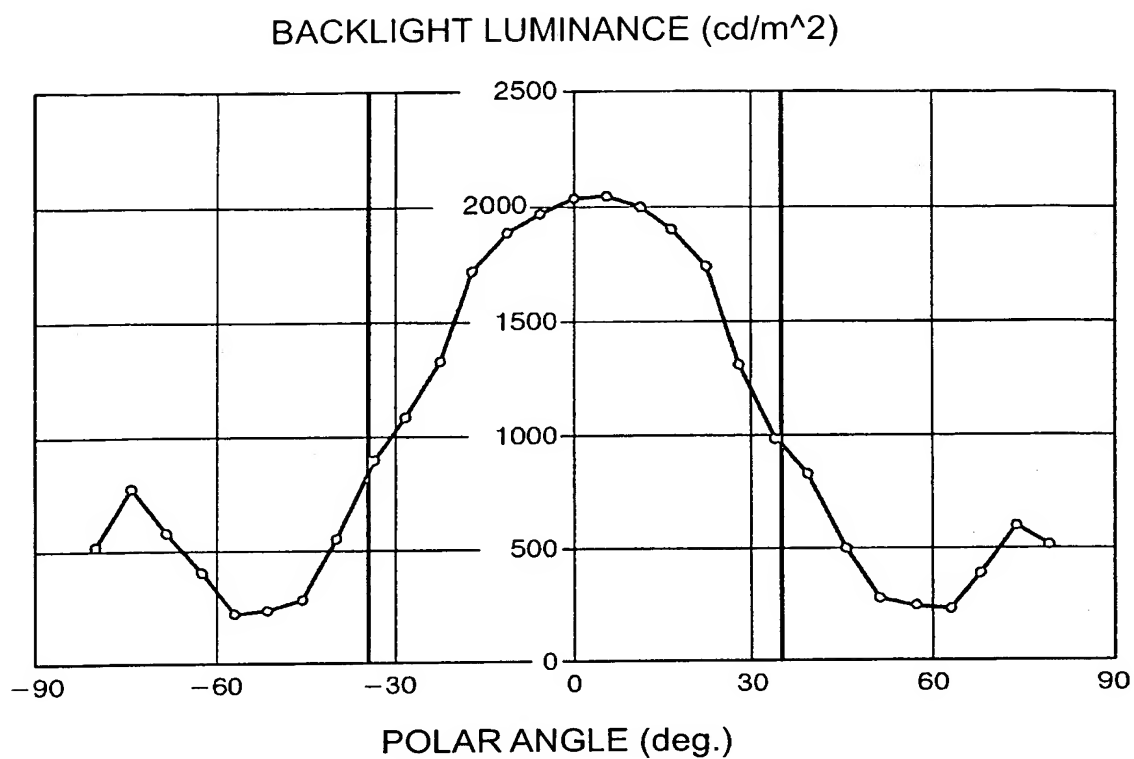


FIG. 11

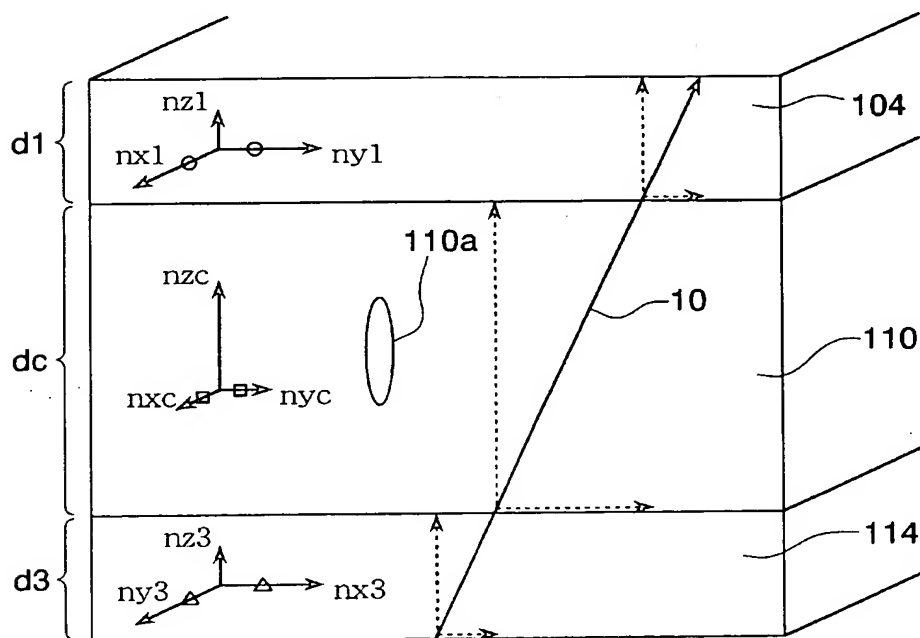


FIG. 12